



# PATENT

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Frank C. Turner, Reg. No. 39,863  
Name of applicant, assignee, or Registered Rep.  
Frank C. Turner  
Signature

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

FARSHAD A. BAVARIAN, et al.

GROUP ART UNIT

Serial No. 10/827,187

Filed: April 19, 2004

EXAMINER:

For: APPARATUS AND METHOD FOR  
HYDRATION GENERATION

## INFORMATION DISCLOSURE STATEMENT

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Sir:

This Information Disclosure Statement is submitted pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, particularly 1.97(b). The documents listed on the attached Form PTO/SB/08a are brought to the Examiner's attention. Copies of these documents are enclosed.

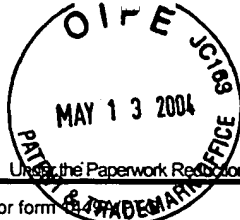
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Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Frank C. Turner", is written over a horizontal line.

Frank C. Turner  
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Substitute for form

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

2

**Complete if Known**

Application Number	10/827,187
Filing Date	April 19, 2004
First Named Inventor	Farshad A. Bavarian, et al.
Art Unit	
Examiner Name	
Attorney Docket Number	X-0170

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	AA	US-2002-0085967 A1	7/4/2002	Yokata	
	AB	US-2002-0110503 A1	8/15/2002	Gittleman et al.	
	AC	US-2003-0113598 A1	6/19/2003	Chow et al.	
	AD	US-2003-0150163 A1	8/14/2003	Murata et al.	
	AE	US-2003-0188993 A1	10/9/2003	Khare et al.	
	AF	US-2004-0063576 A1	4/1/2004	Weston et al.	
	AG	US-3,108,857	10/28/1963	Gorin et al.	
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	AI	US-3,627,478	12/14/1971	Tepper	
	AJ	US-4,108,605	8/22/1978	Billings	
	AK	US-4,360,505	11/23/1982	Sheridan III et al.	
	AL	US-4,566,281	1/28/1986	Sandrock et al.	
	AM	US-4,687,650	8/18/1987	Goodell et al.	
	AN	US-4,696,806	9/29/1987	Peterson et al.	
	AO	US-4,749,558	6/7/1988	Bogdanovic	
	AP	US-5,059,406	10/22/1991	Sheth et al.	
	AQ	US-5,080,875	1/14/1992	Bernauer	
	AR	US-6,007,699	12/28/1999	Cole	
	AS	US-6,103,143	8/15/2000	Sircar et al.	
	AT	US-6,454,935 B1	9/24/2002	Lesieur et al.	
	AU	US-6,660,680 B1	12/9/2003	Hampden-Smith et al.	
	AV	US-6,682,838	1/27/2004	Stevens	
	AW	US-6,685,762	2/3/2004	Brewster et al.	

**FOREIGN PATENT DOCUMENTS**

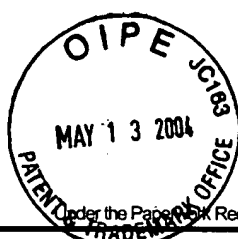
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	BA	EP 1,187,668 (WO 00/76629)	3/20/2002	Connor et al.		
	BB	JP 2000-273472	10/3/2000	Tatsuo et al.		
	BC	JP 2002-208425	7/26/2002	Yukitaka et al.		

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Sheet 2 of 2

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First Named Inventor	Farshad A. Bavarian, et al.
Art Unit	
Examiner Name	
Attorney Docket Number	X-0170

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Alpay et al., "Combined Reaction and Separation in Pressure Swing Processes," <i>Chemical Engineering Science</i> , Vol. 49, No. 24B, pp 5845-5864	
	CB	Berty et al., "Beat the Equilibrium," <i>Chemtech</i> , October 1990, pp 624-629	
	CC	Carvill et al., "Sorption-Enhanced Reaction Process," <i>AIChE Journal</i> , Oct. 1996, Vol. 42, No. 10, pp 2765-2772	
	CD	Han et al., "Simultaneous Shift Reaction and Carbon Dioxide Separation for the Direct Production of Hydrogen," <i>Chemical Engineering Science</i> , Vol. 49, No. 24B, pp 5875-5883 (1995)	
	CE	Heung, L. K., "Separation Using Encapsulated Metal Hydride," U.S. Department of Energy Report No. WSRC-RP-00668, published June 1, 2001	
	CF	Hufton et al., "Sorption-Enhanced Reaction Process for Hydrogen Production," <i>AIChE Journal</i> , Feb. 1999, Vol. 45, No. 2, pp 248-256	
	CG	Kuramoto et al., "Repetitive Carbonation-Calcination Reactions of Ca-Based Sorbents for Efficient CO <sub>2</sub> Sorption at Elevated Temperatures," <i>Ind. Eng. Chem. Res.</i> , 2003, Vol. 42, pp 975-981	
	CH	Lin et al., "Hydrogen Production from Hydrocarbon by Integration of Water-Carbon Reaction and Carbon Dioxide Removal (HyPr-RING Method)," <i>Energy and Fuels</i> , 2001, Vol. 15, pp 339-343	
	CI	Rizeq et al., "Fuel-flexible gasification-combustion technology for production of H <sub>2</sub> and sequestration-ready CO <sub>2</sub> ," Annual Technical Progress Report 2002, October 2002, DOE Award No. DE-FC26-00FT40974, General Electric and Environmental Research Corporation	
	CJ	Saitou et al., "Hydrogen Purification with Metal Hydride Sintered Pellets Using Pressure Swing Adsorption Method," <i>Journal of Alloys and Compounds</i> , Vol. 231 (1995), pp. 865-870	
	CK	Silaban et al., "High Temperature Capture of Carbon Dioxide: Characteristics of the Reversible Reaction Between CaO(s) and CO <sub>2</sub> (g)," <i>Chem. Eng. Comm.</i> , 1995, Vol. 137, pp 177-190	
	CL	Wang, et al., "Hydrogen Purification Using Fluorinated LaNi <sub>4.7</sub> Al <sub>0.3</sub> Alloy," <i>Journal of Alloys and Compounds</i> , Vol. 231 (1995), pp. 860-864	
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